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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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May 17, 1995

TO: Daron Haddock, Permit Supervisor

FROM: Wayne H. Western, Reclamation Engineer *WHW*

RE: Response to LBA #9 & Longwall Mining Reviews, Genwal Resources, Inc.,
Crandall Canyon Mine, ACT/015/032, Folder #2, Emery County, Utah

And Permit
Bound 96

Operator's Proposal:

Genwal is providing calculations, showing roof strength using the Plate Theory, and logs of the roof obtained by borehole camera logging conducted by the U.S. Bureau of Mines. It is important to remember that Genwal has not had an overburden roof failure irrespective of the depth of cover. The massive bedded sandstone is present in the roof throughout the area that has been mined and that is projected to be mined.

Analysis:

The Division has examined the calculations and determined that the risk of surface damage caused primarily by roof failure is minimal. If surface damage did occur, it would most likely be from subsidence caused by pillar failure.

It is unlikely that roof-failure-induced-caving would reach the surface. Usually roof failure only involves the immediate roof. In those cases when the entire roof fails swelling of the caved material usually prevents surface damage.

Findings:

The Division has determined that the risk to surface features due to roof failure is minimal. The Division has no reason to prevent the Operator from conducting first mining in the LBA area.

RECOMMENDATION

Approve the Operator's mine plans.

GENLBR.WHW

